

Contributions to the Moss Flora of Japan and Formosa (VII)

By

Akira NOGUCHI

野口 彰：日臺産蘚類植物考察（其七）

59) **Neckera speciosa** (NOG.) NOGUCHI, comb. nov.

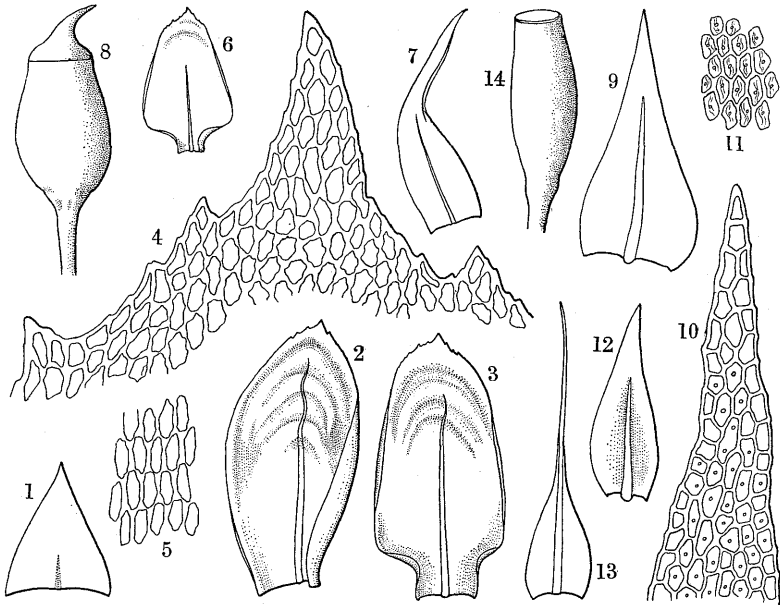
Syn. *Himantocladium speciosum* NOGUCHI, in Trans. Nat. Hist. Soc. Formosa, XXIV, p. 473 (1934).

Loc. Formosa : Rakuraku & Taikwan, prov. Taityû (A. NOGUCHI) ; Mt. Arisan (Numanohira), prov. Tainan (S. MATUMOTO); Mt. Kodama, prov. Tainan (A. NOGUCHI).

Remarks. This species is better to be placed in *Neckera* than in *Himantocladium* from a standpoint of the shape of leaf-cells.

60) **Homaliodendron undulatum** NOGUCHI, sp. nov. (Fig. 1, 1-8)

Dioica. Planta opaca, lutescenti-viridis. Caulis primarius repens, flexuosus, ca 7 cm longus, laxe foliosus; foliis siccis adpressis, concavis, basi luteis, in plano triangulatis, $0.65-0.68 \times 0.6-0.68$ mm, margine integris; costa nulla vel indistincta. Caules secundarii erecti, sicci superne sæpe curvati, 2-6 cm longi; stipite 5-12 mm longo, foliis adpressis, dein pinnatim ramosi, dense et \pm complanate foliosi, cum foliis ad 3.5 mm lati; ramis erecto-patentibus, plerumque ca 1 cm longis, dense et haud complanate foliosis, pinnatim ramulosis. Folia caulina erecto-patentia, concava, superne undulata, basi lutea, late oblonga, ca medium latissima, acuta raro subacuta, basi contracta, in plano ad 3.0×1.8 mm; marginibus superne irregulariter dentatis. Costa lutea, basi ca 0.12 mm lata, longe infra apicem folii producta. Cellulæ folii elongato-hexagonæ, parietibus incrassatis, medio $14-22 \times 7.0-7.5 \mu$ in diam., apicales rhomboideæ, breviores, basilares longe rectangulares vel lineares, parietibus incrassatis, inter se porosis, $37-60 \times 8.8-10.0 \mu$, marginales breviores. Folia ramea minora, basi valde contracta et amplexicaulina, ad 1.7 mm longa, inferiora

Fig. 1. *Homaliodendron undulatum* NOGUCHI, 1-8.*Leskea subacuminata* NOGUCHI, 9-14.

1. Leaf of primary stem, $\times 26$. 2,3. Leaves of secondary stem, $\times 12$. 4. Apical part of leaf, $\times 270$. 5. Cells from middle of leaf, $\times 270$. 6. Branch-leaf, $\times 12$. 7. Inner perichætial bract, $\times 12$. 8. Capsule with lid, $\times 12$. 9. Stem-leaf, $\times 48$. 10. Apical part of leaf, $\times 270$. 11. Cells from middle of leaf, $\times 270$. 12. Branch-leaf, $\times 48$. 13. Inner perichætial bract, $\times 26$. 14. Capsule, $\times 15$.

sicca undulata, madida vix undulata; marginibus superne minus et minute dentatis raro integerrimis; cellulis rhomboideis, mediis $12-20 \times 7.0-8.8 \mu$ in diam., superioribus brevioribus, $9-12 \times 7-8 \mu$. Folia ramulina multo minora. Bracteae perichætii internae oblongo-lanceolatae, acuminatae, concavae, medio recurvae; marginibus superne minute denticulatis; costa ad medium producta; paraphyses numerosae. Seta erecta, ca 2 mm longa, 0.17 mm crassa, laevis. Theca ovata, laevis, fusca, ca 1.7×1.0 mm. Operculum e basi convexa curvato-rostratum. Peristomium duplex. Exostomii dentes lineari-lanceolati, ca 0.45 mm longi, dense papilloso, inferne lutei, superne lutescenti. Endostomium lutescens, minute papillosum, corona basilaris ca 0.085 mm alta, processus lineares, carinati, per totam perforati, ca 0.45 mm longi. Sporae rotun-

datae, minute papillosae, 17–20 μ in diam. Flores masculi gemmiformes; folia perigonia interna latissime ovata, concava, superne rotundato-obtusa, brevissime acuminata, ecostata, margine integerrima; paraphysibus paucis.

Hab. On the bark of trees.

Loc. Formosa: Rahau, prov. Taihoku (A. NOGUCHI, no. 6285-typus, in Herb. Hiros. Univ. Aug. 1932).

Remarks. The present species seems to be allied to *H. neckeroideum* BROTH. but is distinct in the following points:

1. Stem-leaves are concave and undulate, and bear sharpless teeth on the margin.
2. Branch-leaves are strongly concave and contract at the base.
3. Lower branch-leaves are usually undulate, etc.

61) ***Leskea subacuminata*** NOGUCHI, sp. nov. (Fig. 1, 9–14)

Autoica. Planta gracilis, sordide viridis, opaca, dense caespitosa. Caulis elongatus, ca 6 cm longus, ca 0.11 mm crassus, paulum flexuosus, simplex raro divisus, dense foliosus, pinnatim ramosus; ramis 3–6 mm plerumque 4 mm longis, dense foliosis, obtusis raro attenuatis, \pm flexuosis, simplicibus rarissime paulum ramulosis. Folia caulina sicca adpressa, madida patentia, \pm arcuato-reflexa, carinato-concava, in plano e basi late ovata sensim lanceolato-acuminata, $0.6\text{--}0.77 \times 0.3\text{--}0.35$ mm; marginibus planis, mamilloso-dentatis, inferne paulum recurvis. Costa crassa, lutescens, ad $3/4$ folii producta, dorso scabra. Cellulae folii rotundato-quadratae vel -hexagonae vel -rectangulares, subhyalinae, uni- vel bi-papillosae, parietibus tenuibus, medio $7.5\text{--}10.0 \times 6\text{--}7$ μ in diam., superiores breviter rectangulares, $8\text{--}12 \times 5.5\text{--}7.0$ μ , basiales paulum laxae. Folia ramea minora, sicca imbricata non secunda, carinato-concava, in plano e basi ovato-oblonga lanceolatum acuminata, $0.4\text{--}0.5 \times 0.17\text{--}0.23$ mm; cellulis subhyalinis, irregulariter hexagonis vel quadratis, parietibus tenuibus, medio $7\text{--}8$ μ in diam., plerumque uni-papillosis. Bractae perichatii internae late ovatae, lineari-lanceolatum acuminatae, ad 1.4 mm longae; costa valida, lutescens, longe piliferum producta. Seta erecta, laevis, 3–4 mm longa, 0.15 mm crassa. Theca suberecta, oblongo-cylindrica, superne \pm contracta, laevis, ca 1.4×0.55 mm. Flores masculi gemmiformes; folia perigonia in-

terna ovata, acuta vel acuminata; marginibus superne irregulariter crenulatis; costa nulla vel indistincta; archegonia ca 5; paraphysibus nullis.

Hab. On the foot of trunk.

Loc. Formosa: Kagi, prov. Tainan (A. NOGUCHI, no. 6707 -typus, in Herb. Hiros. Univ. Aug. 1932).

Remarks. This species is resembled to *L. acuminata* BROTH. et PAR. but is distinguished from it in the shorter seta and shorter costa, etc.

62) **Haplohymenium fragiliforme** NOGUCHI, sp. nov. (Fig. 2, 1-6)

Sterile. Planta gracillima, sordide atroviridis, dense caespitosa. Caulis elongatus, divisus, ad 10 cm longus, ca 0.13 mm crassus, pendulus, flexuosus, dense foliosus, laxe ramosus; ramis ca 5 mm longis, simplicibus, dense foliosis, obtusis. Folia caulina polymorpha, valde fragilia, sicca arete imbricata, madida patentia, concava, inferne arcuata, apice acuta, 0.6-0.7 mm longa, inferiora e basi late cordata raptim in acumen latiusculum lineari-lanceolatum raro lingulatum producta, apice subacuta, superiora raptim in acumen lineari-lanceolatum producta; marginibus mamilloso-dentatis; costa viridis, brevis, dorso papillosa. Cellulae folii hyalinae, rotundato-hexagonae, multipapillosae, papillis minutis et humilibus, parietibus tenuibus, saepe papillosis, 7.0-8.8 μ in diam., basilares internae rectangulares, plerumque laeves, parietibus \pm incrassatis, 10-20 \times 5.5-7.5 μ . Folia ramea caulinis similia sed plerumque minora, superne sensim lanceolatum attenuata raro lingulatum producta.

Hab. Hanging from the branches of trees.

Loc. Sikoku: Mt. Yokogura, prov. Tosa (M. KAMIMURA, no. 648-typus, in Herb. Hiros. Univ. Aug. 1934).

Remarks. The present species is quite distinct in the following points:

1. Stems are usually hanging.
2. Leaves are very fragile.
3. The shape of leaves is characterized.

63) **Haplohymenium pinnatum** NOGUCHI, sp. nov. (Fig. 2, 7-11)

Dioicum. Planta gracilis, laete viridis, dense caespitosa. Caulis elongatus, ad 4 cm longus, ca 0.09 mm crassus, simplex raro divisus, flexuosus, dense folio-

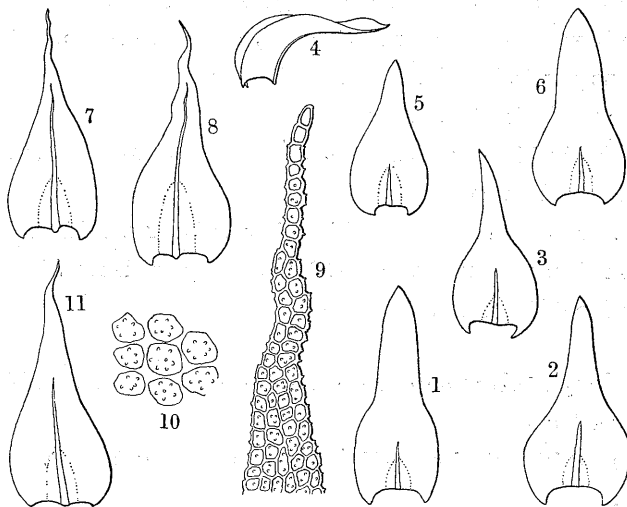


Fig. 2. *Haplohymenium fragiliforme* NOGUCHI, 1-6.

H. pinnatum NOGUCHI, 7-11.

1, 2. Stem-leaves, inferior ones, $\times 42$. 3, 4. Ditto, superior ones, $\times 42$. 5, 6. Branch-leaves, $\times 42$. 7, 8. Stem-leaves, $\times 48$. 9. Apical part of leaves, $\times 270$. 10. Cells from middle of leaf, $\times 510$. 11. Branch-leaf, $\times 48$.

sus, vage fasciculatim radiculosus; ramis patentibus, sæpe curvatulis, attenuatis, plerumque 2-3 mm longis, simplicibus raro longioribus et ramulosis, dense et haud imbricate foliosis. Folia caulina uniformia, sicca adpressa, madida erecto-patentia, e basi late cordato-ovata sensim in acumen lanceolato-subulatum sæpe flexuosum attenuata, inferne concava, in plano 0.6-0.77 \times 0.34-0.39 mm; marginibus mamilloso-dentatis. Costa lutescens, \pm flexuosa, ad $3/4$ folii producta, basi ca 30 μ lata, dorso papillosa. Cellulæ folii rotundatæ vel rotundato-hexagonæ, obscuræ, multi-papillosæ, papillis minutis et humilibus, parietibus tenuibus, medio 8-11 μ in diam., basilares internæ rectangulares, hyalinæ, plerumque uni-papillosæ, parietibus \pm incrassatis, apicales \pm hyalinæ, paulum papillosæ. Folia ramea caulinis similia sed angustiora, costa breviora. Bracteæ perichætii internæ alte vaginantes, superne canaliculato-concavæ, ad 1.7 mm longæ; costa in acumine dissoluta; marginibus convolutis, e medio ad apicem crenulatis. Seta erecta, lævis, lutescens, ca 3.5 mm longa, 0.13 mm crassa. Theca oblongo-ovata, fusca, lævis, ca 0.72 \times 0.52 mm.

Flores masculi gemmiformes; folia perigonia interna concava, late obovata, apice breviter lanceolatum attenuata, ecostata, margine integerrima; paraphysibus paucis, brevibus; archegoniis paucis.

Hab. On the bark of trees.

Loc. Kyûsyû: Mt. Takakuma, prov. Ôsumi (A. NOGUCHI, no. 7775 -typus, in Herb. Hiros. Univ. Aug. 1931).

Remarks. Although resembling *H. piliferum* BROTH. et YAS., this species differs from it in the uniformity of leaves, shape of leaves, larger size of plant and pinnate branches.

64) **Haplohymenium submicrophyllum** (CARD.) BROTH. in Nat. Pflanz. I, 3, II, p. 986 (1907).

Syn. *Anomodon submicrophyllus* CARD. in Beih. Bot. Cent. XIX, p. 128, f. 22 (1905).

Hab. On the bark of trees.

Loc. Formosa: Taihoku (Maruyama), prov. Taihoku (H. SASAOKA, Nov. 1925); Kiirun, prov. Taihoku (A. NOGUCHI, Aug. 1932).

Luchu: Naha, Isl. Okinawa (A. MAESIRO, Feb. 1933).

Distr. Formosa, Luchu.

Remarks. This species is new to the Luchus.

65) **Boulaya Mittenii** (BROTH.) CARD. in Rev. bryol. 39 e, p. 2 (1912).

Syn. *Meteorium humile* MITT. in Trans. Linn. Soc. Bot. III, 3, p. 173 (1891).

Thuidium Mittenii BROTH. in Hedwigia XXXVIII, p. 246 (1899).

Forsstrœmia Mittenii BROTH. in Nat. Pflanz. I, 3, II, p. 1017 (1908).

Hab. On the bark or rock.

Loc. Kurile: Syakotan, Isl. Sikotan (Y. SUGIWARA, June 1935).

Distr. Hokkaidô, Japan prop. (Honsyû, Sikoku, Kyûsyû), Corea.

Remarks. The present species is new to the Kuriles.

var. **attenuata** NOGUCHI, nov.

A forma typica ramis longioribus ad 1 cm longis, apice attenuatis sæpe flagelliformiter attenuatis, minus dense foliosis diversa.

Hab. On the bark of trees.

Loc. Honsyû: Mt. Hakone, prov. Sagami (A. NOGUCHI, no. 168-typus, in Herb. Hiros. Univ. Aug. 1929). (to be continued)

摘 要

59) 本種ハ臺灣ノ阿里山、兒玉山及ビ對關—東埔間方面ノ潤葉樹林ノ樹皮ニ比較的普通ニ着生シテキテ莖ハ時ニハ垂下シ葉ハ著ルシイ横皺ノアル美藓デアル。未ダソノ子囊部ヲ着ケタモノニ接シナイガ余ハサキニソノ葉形ヤ葉ノ着生狀態カラミテ *Himantocladium* ニ屬スルモノト考ヘタガ今ハ葉細胞ノ形等カラミテ *Neckera* ニ屬セシムルノヲ妥當ト考ヘルノデ新組合セヲ行フタ。

60) 臺北州ラハツ蕃地方面ノ樹皮ニ着生シテキル一寸カハツタ *Homaliodendron* ノ一種ガアル。即 *Homaliodendron* ノ他ノ種ニミルヤウナ艶ガ全クナク葉ハ非常ニ凹ミ且ツ莖葉ニハ横皺ガアリ枝葉ハ決シテ扁平ニツイテキナイ。最後ノ點カラミルナラバ本種ハ支那産ノ *H. neckeroideum* BROTH. ニ近似ノモノト考ヘル。然シ BROTHERUS ノ原記載ニハソノ葉ニ横皺ノアルコトガ少シモ記サレテキナイデ異種ト考ヘ新シク *H. undulatum* NOGUCHI ト命名スル。

61) 臺南州嘉義神社境内ノ樹幹根元ニテ *Leskea* 屬ノ一種ヲ採集シタガ之ハ *L. acuminata* BROTH. et PAR. ニ近イケレドモ蒴柄ヤ中肋ガ短イノデ新種ト考ヘテ *L. subacuminata* NOGUCHI ト命名シタ。

62) 珍植物ヲ産ルノデ有名ナ土佐ノ横倉山産ノ *Haplohymenium* ノ一種ヲ上村登氏ヨリ送付サレタ。莖ハ樹木ノ小枝ヨリ垂下シ葉ハ同屬ノ他種ノモノ以上ニ極メテ脆ク葉形モ特異ナ恰好ヲシテキル。之等ノ點ヲ重視シテ *H. fragiliforme* NOGUCHI ナル新種トシタ。

63) 葉ノ着生狀態ハ *Haplohymenium* ト思ハレスヤウナ外觀ヲモツタモノデアルガ他ノ點ハ該屬ノ特徴ヲ具ヘテキル。葉形ヲミルト稍 *H. piliferum* BROTH. et YAS. ニ似テキルケレドモ之トハ全ク異ルモノデアル。該標品ハ若イ子囊部ヲ有スルモノデアルガゴク僅カノ古イ子囊部ヲ有スルニスギナイカラソノ充分ナ特徴ハ記載出來ナイ。因ニ從來上野赤城山ニノミ知ラレテキタ *H. piliferum* ニ就テハ其ノ原標品ヲ角田愛花氏ノ好意ニヨツテミルコトガ出來タガ余ハ本種ヲ 1931 年 11 月ニ九州ノ祖母山デモ採集シテキル。

64) 永ク臺灣特産ト考ヘラレテキタ *Haplohymenium submicrophyllum* (CARD) BROTH. ハ沖繩島ニモ北上シテキルコトガワカツタ。

65) 邦内ニ廣ク分布スル *Boulaya Mittenii* (BROTH.) CARD. ガ色丹島デモ採集サレタノデ記録スル。本種ノ變種ト考ヘラレルモノデ葉ノツキ方ガ基本種ヨリモ遙ニ粗ク枝先ガ細長ク伸ビテキルモノヲ相州、箱根(神山)ノ樹幹上デ採集シテキタガ新變種 var. *attenuata* NOGUCHI トシテ發表スル。

(續ク)